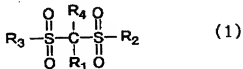


AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) A secondary battery comprising:
- a positive electrode;
 - a negative electrode; and
 - an electrolyte solution comprising an aprotic solvent having at least an electrolyte dissolved therein,
- wherein the positive electrode comprises a lithium-manganese composite oxide having a spinel structure as a positive electrode active material, and
- the electrolyte solution comprises a compound represented by the general formula (1):
- [Formula 1]



wherein R₁ and R₄ independently represent an atom or a group selected from a hydrogen atom, a substituted ~~or unsubstituted~~ alkyl group having 1 to 5 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 5 carbon atoms, a substituted or unsubstituted fluoroalkyl group having 1 to 5 carbon atoms, a polyfluoroalkyl group having 1 to 5 carbon atoms, -SO₂X₁, wherein X₁ is a substituted or unsubstituted alkyl group having 1 to 5 carbon atoms, -SY₁, wherein Y₁ is a substituted or

unsubstituted alkyl group having 1 to 5 carbon atoms, $-\text{COZ}$, wherein Z is a hydrogen atom or a substituted or unsubstituted alkyl group having 1 to 5 carbon atoms, and a halogen atom; and R_2 and R_3 independently represent an atom or a group selected from ~~a substituted or an~~ unsubstituted alkyl group having 1 to 5 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 5 carbon atoms, a substituted or unsubstituted phenoxy group, a substituted or unsubstituted fluoroalkyl group having 1 to 5 carbon atoms, ~~a polyfluoroalkyl group having 1 to 5 carbon atoms,~~ a substituted or unsubstituted fluoroalkoxy group having 1 to 5 carbon atoms, a polyfluoroalkoxy group having 1 to 5 carbon atoms, a hydroxyl group, a halogen atom, $-\text{NX}_2\text{X}_3$, wherein X_2 and X_3 independently represent a hydrogen atom or a substituted or unsubstituted alkyl group having 1 to 5 carbon atoms, and $-\text{NY}_2\text{CONY}_3\text{Y}_4$, wherein Y_2 to Y_4 independently represent a hydrogen atom or a substituted or unsubstituted alkyl group having 1 to 5 carbon atoms.

2. (original) The secondary battery according to claim 1, wherein the lithium-manganese composite oxide having a spinel structure is $\text{Li}(\text{M}_x\text{Mn}_{1-x})_2(\text{O}_{1-y}\text{F}_y)_4$ ($0 \leq x \leq 0.118$ and $0 \leq y \leq 0.1$), wherein M is at least one element selected from the group consisting of Li, B, Na, Mg, Al, Si, S, K, Ca, Sc, Ti, V, Cr, Fe, Co, Ni, Cu, Zn, Ga, Sr, Y, Zr, Nb, In, Sn, Ba, La, Ce, Nd, Sm, Ta and Pb.

3. (previously presented) The secondary battery according to claim 1, wherein the electrolyte solution has a composition that can produce hydrogen ions by reacting with

water, and a hydrogen ion scavenger is placed at a location in contact with the electrolyte solution in the secondary battery.

4. (original) The secondary battery according to claim 3, wherein the hydrogen ion scavenger is a lithium-nickel composite oxide having a hydrogen ion scavenging function, and is mixed with the positive electrode.

5. (original) The secondary battery according to claim 4, wherein the lithium-nickel composite oxide having a hydrogen ion scavenging function has a specific surface area X_a (m^2/g) of $0.1 \leq X_a \leq 3.0$.

6. (previously presented) The secondary battery according to claim 4, wherein the lithium-nickel composite oxide having a hydrogen ion scavenging function has a D_{50} particle diameter of 1 μm to 40 μm .

7. (previously presented) The secondary battery according to claim 4, wherein a is $3 < a \leq 45$ when a weight ratio of the lithium-manganese composite oxide having a spinel structure to the lithium-nickel composite oxide is represented by [lithium-manganese composite oxide having a spinel structure] : [lithium-nickel composite oxide] = $(100-a) : a$.

8. (previously presented) The secondary battery according to claim 1, wherein the positive electrode is further mixed with $Li(Ni_bCo_cMn_{1-b-c})O_2$, wherein b is $0 \leq b \leq 2/3$ and c is $0 \leq c \leq 2/3$, provided that $b + c \leq 2/3$.

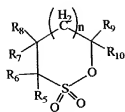
9. (original) The secondary battery according to claim 8, wherein d is $3 < d \leq 45$ when a weight ratio of the lithium-manganese composite oxide having a spinel structure to the $\text{Li}(\text{Ni}_b\text{Co}_c\text{Mn}_{1-b-c})\text{O}_2$ is represented by [lithium-manganese composite oxide having a spinel structure] : $[\text{Li}(\text{Ni}_b\text{Co}_c\text{Mn}_{1-b-c})\text{O}_2] = (100-d) : d$.

10. (previously presented) The secondary battery according to claim 1, wherein there is a bismuth compound on or near the surface of the lithium-manganese composite oxide having a spinel structure.

11. (original) The secondary battery according to claim 10, wherein the bismuth compound is a bismuth oxide or a composite oxide of bismuth and manganese.

12. (previously presented) The secondary battery according to claim 1, wherein the compound represented by the general formula (1) is contained in the electrolyte solution in an amount of 0.1 to 5.0% by weight based on the total weight of the electrolyte solution.

13. (previously presented) The secondary battery according to claim 1, wherein the electrolyte solution further comprises a cyclic monosulfonate represented by the general formula (2):
[Formula 2]

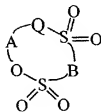


(2)

wherein n is an integer of 0 to 2; R₅ to R₁₀ independently represent an atom or a group selected from a hydrogen atom, a substituted or unsubstituted alkyl group having 1 to 12 carbon atoms, a substituted or unsubstituted fluoroalkyl group having 1 to 6 carbon atoms, and a polyfluoroalkyl group having 1 to 6 carbon atoms.

14. (previously presented) The secondary battery according to claim 1, wherein the electrolyte solution further comprises a cyclic sulfonate having two sulfonyl groups represented by the general formula (3):

[Formula 3]



(3)

wherein Q represents an oxygen atom, a methylene group or a single bond, and A represents a group selected from a substituted or unsubstituted alkylene group having 1 to 5 carbon atoms, a carbonyl group, a sulfinyl group, a polyfluoroalkylene group having 1 to 5 carbon atoms, a substituted or unsubstituted fluoroalkylene group having 1 to 5 carbon atoms, a substituted or unsubstituted alkylene group having 1 to 5 carbon atoms in which

at least one C-C bond is replaced by a C-O-C bond, a polyfluoroalkylene group having 1 to 5 carbon atoms in which at least one C-C bond is replaced by a C-O-C bond, and a substituted or unsubstituted fluoroalkylene group having 1 to 5 carbon atoms in which at least one C-C bond is replaced by a C-O-C bond; and B represents a group selected from a substituted or unsubstituted alkylene group having 1 to 5 carbon atoms, a polyfluoroalkylene group having 1 to 5 carbon atoms, and a substituted or unsubstituted fluoroalkylene group having 1 to 5 carbon atoms.

15. (previously presented) The secondary battery according to claim 1, wherein the electrolyte solution further comprises at least one of vinylene carbonates and derivatives thereof.

16. (previously presented) The secondary battery according to claim 1, wherein the electrolyte comprises a lithium salt.

17. (original) The secondary battery according to claim 16, wherein the lithium salt is at least one lithium salt selected from the group consisting of LiPF_6 , LiBF_4 , LiAsF_6 , LiSbF_6 , LiClO_4 , LiAlCl_4 and $\text{LiN}(\text{C}_k\text{F}_{2k+1}\text{SO}_2)(\text{C}_m\text{F}_{2m+1}\text{SO}_2)$, wherein k and m are independently 1 or 2.

18. (previously presented) The secondary battery according to claim 1, wherein the aprotic solvent is at least one organic solvent selected from the group consisting of cyclic

carbonates, chain carbonates, aliphatic carboxylates, γ -lactones, cyclic ethers, chain ethers and fluorinated derivatives thereof.

19. (previously presented) The secondary battery according to claim 1, wherein the secondary battery is covered with a laminated exterior package.

20. (previously presented) The secondary battery according to claim 2, wherein the electrolyte solution has a composition that can produce hydrogen ions by reacting with water, and a hydrogen ion scavenger is placed at a location in contact with the electrolyte solution in the secondary battery.